

ABSTRACT OF THE DISCLOSURE

A system and method for controlling a fan is disclosed. A single control signal value for controlling the fan, such as a single PWM duty cycle value for a corresponding PWM generator output powering the fan, may be calculated by combining sensor data
5 from two or more temperature zones. In one embodiment, the single PWM duty cycle value may be determined based on the temperature in a first zone, for example the CPU, with an additional factor based on the temperature in a second zone, for example the ambient temperature of a PC enclosure. In one embodiment, the final single PWM value is determined by adding an offset value to a PWM value calculated based on the current
10 temperature of the first zone, where the offset value is obtained by calculating a first Δ PWM factor for the first zone, and using the first Δ PWM factor, in conjunction with a scaling factor, to weight a second Δ PWM factor calculated for the second zone.